

Title (en)

METHOD AND APPARATUS FOR LINEARIZING A NON-LINEAR POWER AMPLIFIER

Title (de)

VERFAHREN UND VORRICHTUNG ZUM LINEARISIEREN EINES NICHTLINEAREN LEISTUNGSVERSTÄRKERS

Title (fr)

PROCÉDÉ ET APPAREIL POUR LINÉARISER UN AMPLIFICATEUR DE PUISSANCE NON LINÉAIRE

Publication

EP 2406880 B1 20150225 (EN)

Application

EP 09841310 A 20090309

Priority

CN 2009070701 W 20090309

Abstract (en)

[origin: WO2010102441A1] This invention provides an apparatus and method for linearizing a non-linear power amplifier. The method comprises: performing an iteration algorithm by using a desired output signal of the non-linear power amplifier, to calculate an input signal of the non-linear power amplifier, whereby with the calculated input signal of the non-linear power amplifier, the non-linear power amplifier is linearized. This invention can produce a signal on the output of the non-linear power amplifier with an arbitrarily high quality of performance.

IPC 8 full level

H03F 1/32 (2006.01)

CPC (source: EP US)

H03F 1/3241 (2013.01 - EP US); **H03F 1/3247** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2010102441 A1 20100916; BR PI0924414 A2 20160126; CN 101689836 A 20100331; CN 101689836 B 20120905; EP 2406880 A1 20120118; EP 2406880 A4 20130904; EP 2406880 B1 20150225; JP 2012520033 A 20120830; JP 5323950 B2 20131023; US 2012092067 A1 20120419; US 8482349 B2 20130709

DOCDB simple family (application)

CN 2009070701 W 20090309; BR PI0924414 A 20090309; CN 200980000123 A 20090309; EP 09841310 A 20090309; JP 2011553249 A 20090309; US 200913255717 A 20090309